

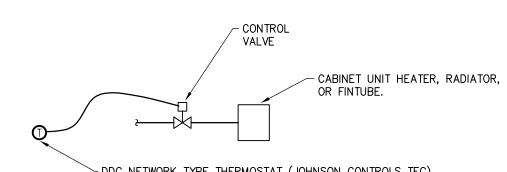
WATER CONVERTER -1/3-2/3 MODULATING STEAM CONTROL VALVES STEAM TO HOT WATER CONVERTER HEATING HOT WATER PLANT CONTROL SCHEMATIC

I. THE HEATING SYSTEM CONSISTS OF AN EXISTING STEAM SYSTEM, ONE STEAM TO HOT WATER CONVERTER, AND

a. MAIN DISTRIBUTION PUMPS (HWP-1,2): THE PUMPS SHALL BE CONTROLLED BY A HAND-OFF-AUTO SWITCH. IN THE AUTO MODÈ, EITHER PUMP SHALL BE DESIGNATED AS THE STANDBY PUMP. PROVIDE A PUMP SEQUENCER PROGRAM TO ALLOW MANUAL AND AUTOMATIC SWITCHOVER BETWEEN THE LEAD AND STANDBY PUMPS TO EQUALIZE RUN TIME. IF THE LEAD PUMP SHOULD FAIL, THE FLOW SWITCH SHALL ALERT THE BMS AND ENERGIZE TIME DELAY RELAY. IF THE FLOW IS INTERRUPTED FOR MORE THAN 20 SECONDS (ADJUSTABLE), THE BMS SHALL SIMULTANEOUSLY DE-ENERGIZE THE LEAD PUMP, ENERGIZE THE STANDBY PUMP, AND ACTIVATE AN ALARM. THE VARIABLE SPEED DRIVE SHALL CONTROL THE RESPECTIVE PUMP IN RESPONSE TO A STATIC PRESSURE CONTROLLER LOCATED IN THE SUPPLY PIPING TWO-THIRDS

b. STEAM-TO-HOT WATER CONVERTER: THE 1/3 - 2/3 CONTROL VALVES ON THE CONVERTER STEAM SUPPLY SHALL BE MODULATED AS REQUIRED TO MAINTAIN THE HOT WATER SUPPLY TEMPERATURE SETPOINT. THE HOT WATER SUPPLY TEMPERATURE SETPOINT SHALL BE RESET IN RESPONSE TO THE

INDICATIONS/ADJUSTMENTS: PROVIDE THE FOLLOWING INDICATIONS (I) AND ADJUSTMENTS (A) FOR THE



PERIMETER HEAT (IN HEATING ONLY ZONE)

UNIT HEATER CONTROL SCHEMATIC

CONTROL VALVE IF THE SPACE TEMPERATURE FALLS BELOW THE SET POINT.

ALL SET POINTS SHALL BE ADJUSTABLE. ALL SET POINTS PROVIDED AT THAT BMS HEAD END COMPUTER SHALL INCLUDE DESCRIPTIONS OF EACH SET POINT.

DOCUMENTS DVA#636-311 ||S-H"#110240-0 DRAWING NO.

IOWA CITY VA HEALTH CARE SYSTEM IOWA CITY, IOWA

Building Number